

Human Adrenocorticotrophic Hormone (ACTH) ELISA Kit | ACTH elisa kit

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CATALOG # AAA139164	REACTIVITY Human
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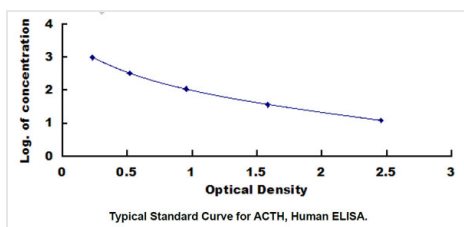
PRODUCT SYNONYMS

Adrenocorticotrophic Hormone (ACTH); Human Adrenocorticotrophic Hormone (ACTH) ELISA Kit; Corticotropin; Adrenocorticotropin; ACTH elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of ACTH. No significant cross-reactivity or interference between ACTH and analogues was observed.
Sequence Length	235
Assay Type	Quantitative Competitive
Samples	Human serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	12.35-1,000pg/mL
Sensitivity	< 4.73pg/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level ACTH were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level ACTH were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ACTH elisa kit	Principle of the Assay: This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to ACTH has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled ACTH and unlabeled ACTH (Standards or samples) with the pre-coated antibody specific to ACTH. After incubation the unbound conjugate is washed off. Next, avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. The amount of bound HRP conjugate is reverse proportional to the concentration of ACTH in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of ACTH in the sample. Intended Uses: The kit is a competitive inhibition enzyme immunoassay technique for the in vitro quantitative measurement of ACTH in human serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
Product Categories/Family for ACTH elisa kit	Endocrinology; Hormone metabolism

NCBI AND UNIPROT INFORMATION

NCBI GI #	191659
NCBI GeneID	18976
Molecular Weight	26,707 Da
NCBI Official Full Name	adrenocorticotrophic hormone, partial
NCBI Official Synonym Full Names	pro-opiomelanocortin-alpha
NCBI Official Symbol	Pomc
NCBI Official Synonym Symbols	BE; Npp; ACTH; Clip; Pomc1; Pomc-1; Beta-LPH; alphaMSH; beta-MSH; Gamma-LPH; alpha-MSH; gamma-MSH
NCBI Protein Information	pro-opiomelanocortin
UniProt Protein Name	Pro-opiomelanocortin
UniProt Gene Name	Pomc
UniProt Synonym Gene Names	Pomc1; POMC; ACTH; CLIP
UniProt Entry Name	COLI_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/human-elisa-kits/adrenocorticotrophic-hormone-acth/139164>